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APPLICATION NO		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/633,565		08/05/2003	Vito Tortelli	108910-00114 5833	
4372	7590	05/18/2004		EXAMINER	
		TNER PLOTKIN	KEYS, ROSALYND ANN		
1050 CONNECTICUT AVENUE, N.W. SUITE 400 WASHINGTON, DC 20036			ART UNIT	PAPER NUMBER	
			1621	3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3	

DATE MAILED: 05/18/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/633,565	TORTELLI ET AL.					
Office Action Summary	Examiner	Art Unit					
	Rosalynd Keys	1621					
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a replif NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tin oly within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on	•						
2a) This action is FINAL . 2b) ⊠ This							
) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
 4) Claim(s) 1-8 is/are pending in the application. 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-8 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or 	awn from consideration.						
Application Papers							
9)☐ The specification is objected to by the Examine	er.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the							
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E.							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents. 2. Certified copies of the priority documents. 3. Copies of the certified copies of the priority documents. * See the attached detailed Office action for a list. 	ts have been received. ts have been received in Applicationity documents have been received in (PCT Rule 17.2(a)).	on No ed in this National Stage					
Attachment(s)							
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da						
 Notice of Draftsperson's Patent Drawing Review (P10-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 12/12/03. 		atent Application (PTO-152)					

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DETAILED ACTION

Status of Claims

1. Claims 1-8 are pending.

Claims 1-8 are rejected.

Priority

2. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

3. The information disclosure statements filed November 14, 2003 and December 12, 2003 have been considered.

Claim Rejections - 35 USC § 112

- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claims 1-8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

A broad range or limitation together with a narrow range or limitation that falls within the broad range or limitation (in the same claim) is considered indefinite, since the resulting claim does not clearly set forth the metes and bounds of the patent protection

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desired. Note the explanation given by the Board of Patent Appeals and Interferences in Ex parte Wu, 10 USPQ2d 2031, 2033 (Bd. Pat. App. & Inter. 1989), as to where broad language is followed by "such as" and then narrow language. The Board stated that this can render a claim indefinite by raising a question or doubt as to whether the feature introduced by such language is (a) merely exemplary of the remainder of the claim, and therefore not required, or (b) a required feature of the claims. Note also, for example, the decisions of Ex parte Steigewald, 131 USPQ 74 (Bd. App. 1961); Ex parte Hall, 83 USPQ 38 (Bd. App. 1948); and Ex parte Hasche, 86 USPQ 481 (Bd. App. 1949). In the present instance, claim 1 recites the broad recitation R is a fluorinated substituent, and the claim also recites preferably perfluorinated which is the narrower statement of the range/limitation. In the present instance, claim 1 recites the broad recitation temperatures from -120°C to -20°C, and the claim also recites preferably -100°C to -40°C, which is the narrower statement of the range/limitation. In the present instance, claim 5 recites the broad wherein the formula (III) compounds are selected from 1,2dichloro-1,2-difluoroethylene (CFC 1112), 1,2-dibromo-1,2-difluoro-ethylene, and the claim also recites preferably CFC 1112, which is the narrower statement of the range/limitation.

6. Where applicant acts as his or her own lexicographer to specifically define a term of a claim contrary to its ordinary meaning, the written description must clearly redefine the claim term and set forth the uncommon definition so as to put one reasonably skilled in the art on notice that the applicant intended to so redefine that claim term. *Process Control Corp. v. HydReclaim Corp.*, 190 F.3d 1350, 1357, 52 USPQ2d 1029, 1033 (Fed. Cir. 1999). The term "ketones" in claim 3 is used by the claim to mean

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"acylfluorides", while the accepted meaning is "a class of liquid organic compounds in which the carbonyl group, C=O, is attached to two alkyl groups." The term is indefinite because the specification does not clearly redefine the term.

7. Claims 2, 4 and 6-8 are indefinite because they depend from an indefinite claim(s). Ex parte Cordova, 10 U.S.P.Q.2d 1949, 1952 (P.T.O. Bd. App. 1989).

Claim Rejections - 35 USC § 103

- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 9. The factual inquiries set forth in *Graham* **v.** *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 10. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was

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not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

11. Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Guglielmo et al. (US 4,900,872) in view of Navarrini et al. (US 5,710,345).

Guglielmo et al. teach a process for preparing fluorohalogenated ethers, which is similar to instant process, except that the hypofluorite reactant is prepared in gaseous phase in the presence of dichlorotetrafluoroethane) prior to its reaction with the olefin (see entire disclosure, in particular example 1).

Navarrini et al. teach that if the hypofluorite is dissolved in an inert solvent, such as dichlorotetrafluoroethane, the reaction product produced between the hypofluorite and the olefin would increase (see column 4, line 26 to column 6, line 64).

One having ordinary skill in the art at the time the invention was made would have found it obvious to dissolve the hypofluorite of Guglielmo et al. in an inert solvent as taught by Navarrini et al. in order to increase production of the desired product.

Conclusion

12. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

New Jersey Department of Health and Senior Services (Hazardous Substance Fact Sheet, Dichloromethane, June 1998) teach that dichlorotetrafluoroethane is available in both liquid and gaseous phase (see entire disclosure).

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13. The Examiner considered the comparative data given in the instant specification, but did not consider it to be a proper side-by-side comparison because the hypofluorite of US 4,827,024 is not done in the presence of dichlorotetrafluoroethane, as is taught by Guglielmo et al.

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14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rosalynd Keys whose telephone number is 571-272-0639. The examiner can normally be reached on M, R and F 3:30-8:30 pm and T-W 5:30-10:30 am.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Johann Richter can be reached on 571-272-0646. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Rosalynd Keys
Primary Examiner
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May 14, 2004